



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: David Muhs

Examiner: unknown

Serial No. 10/732,769

Group Art Unit: unknown

Filed: December 10, 2003

Confirmation No.: N/A

For: PUMP SYSTEM WITH VACUUM SOURCE

Docket No.: 1059.1102105

TRANSMITTAL SHEET

Assistant Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

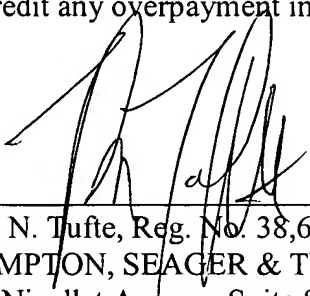
CERTIFICATE UNDER 37 C.F.R. 1.8: I hereby certify that this correspondence is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450, on this 23rd day of March, 2004.

By: _____

Brian N. Tufte

We are transmitting herewith the attached:

- ☒ Information Disclosure Statement, Form PTO-1449 listing 97 references previously submitted in prior related applications.
- ☒ Please charge any deficiencies or credit any overpayment in the enclosed fees to Deposit Account No. 50-0413.



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INFORMATION DISCLOSURE STATEMENT

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By: Brian N. Tufte

Dear Sirs:

Pursuant to the obligations of candor and good faith imposed by 37 C.F.R. 1.56, the documents listed on the attached PTO-1449 are hereby disclosed.

No representation is intended to be made hereby that any of the cited references establishes, by itself or in combination with other information, a prima facie case of unpatentability of any claim of the present case.

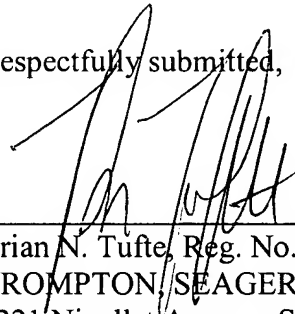
Copies of the documents listed on the 1449 Form were previously either submitted by Applicant and/or cited by the U.S. Patent and Trademark Office in a prior application, U.S. Application No. 09,531,631, filed March 21, 2000, now U.S. Patent No. 6,315,524, U.S. Application No. 09,907,193, filed July 17, 2001, now U.S. Patent No. 6,585,492, U.S. Application No. 10/099,810, filed March 15, 2002, now U.S. Patent No.

6,692,234, or is a U.S. patent application publication or a U.S. patent, upon which Applicant relies for the benefits provided in 35 U.S.C. §120. Therefore, under the provisions of 37 C.F.R. §1.98(d) and 37 CFR §1.98(a)(2)(i), copies of these documents are not being submitted herewith.

Applicant respectfully requests that the Examiner consider the documents listed on the 1449 Form and indicate that they were considered by making appropriate notations on the attached 1449 form.

Dated: March 23, 2004

Respectfully submitted,



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1059.1102105

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Applicant: David Muhs

Filing Date:

December 10, 2003

Group Art:

unknown

**LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION
DISCLOSURE STATEMENT**

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	
	<u>640345</u>	Jan., 1900	Wilberforce.	
	<u>1555023</u>	Sep., 1925	Prokofieff.	
	<u>1735754</u>	Nov., 1929	Hargis.	
	<u>1763595</u>	Jun., 1930	Paatsch.	
	<u>1840257</u>	Jan., 1932	Saxe et al.	
	<u>1891267</u>	Dec., 1932	Milkowski.	
	<u>2306988</u>	Dec., 1942	Adams.	
	<u>3035781</u>	May., 1962	Wallen.	
	<u>3272137</u>	Sep., 1966	Maitlen et al.	
	<u>3394772</u>	Jul., 1968	Abold.	
	<u>3522997</u>	Aug., 1970	Rylewski.	
	<u>3543368</u>	Dec., 1970	Marlow.	
	<u>3584974</u>	June., 1971	Nicastro.	
	<u>3610780</u>	Oct., 1971	Smith.	
	<u>3644056</u>	Feb., 1972	Wiselius.	
	<u>3644061</u>	Feb., 1972	McFarlin	
	<u>3712764</u>	Jan., 1973	Shearwood.	
	<u>3771900</u>	Nov., 1973	Baehr.	
	<u>3867070</u>	Feb., 1975	Sloan.	
	<u>4019680</u>	Apr., 1977	Norris.	
	<u>4057368</u>	Nov., 1977	Balling.	
	<u>4067663</u>	Jan., 1978	Brooks et al.	

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LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	Applicant: David Muhs	
	Filing Date: December 10, 2003	Group Art: unknown

	<u>4080096</u>	Mar., 1978	Dawson.	
	<u>4116582</u>	Sep., 1978	Sloan.	
	<u>4146353</u>	Mar., 1979	Carrouset.	
	<u>4183721</u>	Jan., 1980	Peterson.	
	<u>4386886</u>	Jun., 1983	Neal.	
	<u>4402648</u>	Sep., 1983	Kretschmer.	
	<u>4427336</u>	Jan., 1984	Lake.	
	<u>4443158</u>	Apr., 1984	Bentele et al.	
	<u>4498844</u>	Feb., 1985	Bissell et al.	
	<u>4515180</u>	May., 1985	Napolitano.	
	<u>4606704</u>	Aug., 1986	Sloan.	
	<u>4637780</u>	Jan., 1987	Grayden.	
	<u>4648796</u>	Mar., 1987	Maghenzani.	
	<u>4687412</u>	Aug., 1987	Chamberlain.	
	<u>4708585</u>	Nov., 1987	Fukazawa et al.	
	<u>4737073</u>	Apr., 1988	Grayden	
	<u>4762465</u>	Aug., 1988	Friedrichs.	
	<u>4781529</u>	Nov., 1988	Rose.	
	<u>4881614</u>	Nov., 1989	Hoshi et al.	
	<u>4902199</u>	Feb., 1990	McDonald et al.	
	<u>4940402</u>	Jul., 1990	McCormick.	
	<u>4946349</u>	Aug., 1990	Manabe et al.	
	<u>4981413</u>	Jan., 1991	Elonen et al.	
	<u>4989572</u>	Feb., 1991	Giacomazzi et al.	
	<u>4992028</u>	Feb., 1991	Schoenwald et al.	

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	<u>5078169</u>	Jan., 1992	Scheurenbrand et al.	
	<u>5078573</u>	Jan., 1992	Peroaho et al.	
	<u>5114312</u>	May., 1992	Stanislao.	
	<u>5242268</u>	Sep., 1993	Fukazawa et al.	
	<u>5328274</u>	Jul., 1994	Wallace et al.	
	<u>5380042</u>	Jan., 1995	Hively et al.	
	<u>5464329</u>	Nov., 1995	Senoo et al.	
	<u>5487644</u>	Jan., 1996	Ishigaki et al.	
	<u>5489195</u>	Feb., 1996	Domagalla et al.	
	<u>5536147</u>	Jul., 1996	Lang.	
	<u>5542822</u>	Aug., 1996	Stretz et al.	
	<u>5580222</u>	Dec., 1996	Bornemann.	
	<u>5588806</u>	Dec., 1996	Trimborn et al.	
	<u>5641271</u>	Jun., 1997	Forrester et al.	
	<u>5660533</u>	Aug., 1997	Cartwright.	
	<u>5673940</u>	Oct., 1997	Gaisford et al.	
	<u>5797377</u>	Aug., 1998	Fischerkeller.	
	<u>5797724</u>	Aug., 1998	Liu et al.	
	<u>5800146</u>	Sep., 1998	Junemann et al.	
	<u>5807067</u>	Sep., 1998	Burdick.	
	<u>5846420</u>	Dec., 1998	Bolton et al.	
	<u>5944216</u>	Aug., 1999	Inaoka et al.	
	<u>5960981</u>	Oct., 1999	Dodson et al.	
	<u>5997242</u>	Dec., 1999	Hecker et al.	
	<u>6158959</u>	Dec., 2000	Arbeus.	

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	<u>6315524</u>	Nov., 2001	Muhs et al.	
	<u>6409478</u>	Jun., 2002	Carnes et al.	
	<u>6585492</u>	Jul., 2003	Muhs et al.	
	<u>6692234</u>	Feb., 2004	Muhs.	

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Country	Translation Yes No
	5732009	Mar., 1933	DE.	
	694694	Aug., 1940	DE.	
	2440905	Mar., 1976	DE	
	3040160	Jun., 1982	DE.	
	0606154	Jul., 1994	EP.	
	1468696	Feb., 1967	FR.	
	2748526	Nov., 1997	FR.	
	2181487	Apr., 1987	GB.	
	2303178	Feb., 1997	GB.	
	WO 93/01396	Jan., 1993	WO.	
	WO 98/61403	Apr., 1998	WO.	

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

	Hidrostal, Sectional Drawings Q-Hydraulic, 1 page, dated Sep. 19, 1994.
	Godwin Pumps, Dri-Prime Contractors Pumps brochure, 4 pages, dated prior to Mar. 22, 1999.
	SPP Pumps Ltd., Hydrostream Horizontal Split Case Pumps brochure, 6 pages, dated prior to Mar. 22, 1999.
	SPP Pumps Ltd., Hydrostream Horizontal Split Case Pumps brochure, 6 pages, dated prior to Mar. 22, 1999.

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	SPP Pumps Ltd., Literature Folio, 96 pages, dated prior to Mar. 22, 1999.
	Source unknown, "Principles of Operation", p. 2, dated prior to Mar. 22, 1999.
	Source unknown, Pumping of Liquids and Gases, pp. 6-24, dated prior to Mar. 22, 1999.
	Parma Pompe, Omega.S brochure, 8 pages, dated prior to Mar. 22, 1999.
	Neyrtec -- Alstrhom ATlantique: "Hydro Vakuumpumpen und --verdichter der Reihen NS-CNS,"S.A. IMP. Boissy & COL0MB., Grenoble XP002253993, Jul. 1979. (No English translation. This article is relevant because it was cited on the Supplementary European Search Report).
	W.H. Faragallah: "Liquid ring vacuum pumps and compressors," 1986, Beltz Offsetdruck, 6944 Hemsbach/Bergstrasse XP002253992, p. 77, paragraph 5.2.2, pp.78, figure 5.4.

EXAMINER:	DATE CONSIDERED:
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.